Arkansas (subject) / Project Learning Tree Correlations -- 2005 Frameworks

EIGHTH

Correlations Levels

☺ **Moderate correlation – activity may be used to enhance other activities, but should not be a stand-alone lesson**	☺ ☺ **Strong correlation – activity may be used as a stand-alone to teach the concept**

Strand 2: Life Science	**Standard 3: Life Cycles, Reproduction, and Heredity -- Students shall demonstrate and apply knowledge of life cycles, reproduction, and heredity using appropriate safety procedures, equipment, and technology**

		PLT Activity Number	Name	Level
Regulation and Behavior	LS.3.8.13 Identify basic ideas related to biological evolution: diversity of species, variations within species, adaptations, natural selection, extinction of a species	29	Rain Reasons	☺ ☺
		12	Invasive Species	☺
	LS.3.8.15 Explain the process of natural selection	29	Rain Reasons	☺ ☺
	LS.3.8.16 Identify genetic traits that make organisms more likely to survive	10	Charting Diversity	☺
		12	Invasive Species	☺

	and reproduce in a particular environment			
	Standard 4: Populations and Ecosystems -- Students shall demonstrate and apply knowledge of populations and ecosystems using appropriate safety procedures, equipment, and technology.			
Populations and Ecosystems	LS.4.8.1 Analyze the effect of changes in environmental conditions on the survival of individual organisms and entire species	12	Invasive Species	☺
		27	Every Tree for Itself	☺
		29	Rain Reasons	☺
		48	Field, Forest, and Steam	☺
		50	400-Acre Wood	☺
		77	Trees in Trouble	☺
		80	Nothing Succeeds Like Succession	☺
		86	Our Changing World	☺
		88	Life on the Edge	☺
		89	Trees for Many Reasons	☺
Strand 4: Earth and Space Science	**Standard 8: Earth Systems -- Students shall demonstrate and apply knowledge of Earth's structure and properties using appropriate safety procedures, equipment, and technology**			
Structure and Properties	ESS.8.8.1 Analyze the causes and predict the consequences of global warming on the following: weather, temperature. ocean water levels	84	The Global Change	☺
	ESS.8.8.4 Synthesize and model the result of both constructive and	44	Water Wonders	☺

	destructive forces on land forms: deposition. Erosion, weathering, crustal deformation			
	ESS.8.8.8 Demonstrate an understanding of the agents of erosion: gravity water ice wind animals, including humans	44	Water Wonders	☺
	ESS.8.8.9 Using models of rivers, predict changes when variables, such as load, slope, amount of water, or the composition of a stream bed, are changed through erosion or deposition	44	Water Wonders	☺
Cycles	ESS.8.8.13 Illustrate soil profiles	70	Soil Stories	☺
	ESS.8.8.14 Apply knowledge of soil profiles to local soil	70	Soil Stories	☺

	samples			
	ESS.8.8.15 Investigate the formation of soil types	70	Soil Stories	☺
	ESS.8.8.18 Identify ways plants use organic and inorganic components in the soil	70	Soil Stories	☺
	ESS.8.8.19 Investigate and analyze the composition of a variety of soils	70	Soil Stories	☺
	ESS.8.8.20 Conduct investigations on soil permeability	70	Soil Stories	☺